Math 165: Honors Calculus I   Name:_____

Quiz 3   *Sept. 17, 1998*

1. Define the following:

   a) A step function s on $[a, b]$.

   b) $\int_a^b s(x)\, dx$ where s is a step function on $[a, b]$.

   c) $\int_a^b f(x)\, dx$ where f is a bounded function on $[a, b]$.

2. State and prove the Linearity Property for integrals of step functions.